



1600

RAW SEQUENCE LISTING

DATE: 03/06/2003

PATENT APPLICATION: US/09/502,945

TIME: 16:14:35

Input Set : N:\Crf3\RULE60\09502945.raw

Output Set: N:\CRF4\03062003\I502945.raw

17

1 <110> APPLICANT: Scanlan, Matthew J.
 2 Chen, Yao-Tseng
 3 Stockert, Elisabeth
 4 Old, Lloyd J.
 5 <120> TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULES
 6 ASSOCIATED WITH COLON CANCER AND METHODS FOR DIAGNOSING AND
 7 TREATING COLON CANCER
 8 <130> FILE REFERENCE: LUD-5506-JEL/NDH
 9 <140> CURRENT APPLICATION NUMBER: 09/502,945
 10 <141> CURRENT FILING DATE: 2000-02-11
 11 <150> PRIOR APPLICATION NUMBER: US/08/948,705
 12 <151> PRIOR FILING DATE: 1997-10-10
 13 <160> NUMBER OF SEQ ID NOS: 8
 14 <170> SOFTWARE: FastSEQ for Windows Version 3.0
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 1552
 18 <212> TYPE: DNA
 19 <213> ORGANISM: Homo Sapiens
 20 <400> SEQUENCE: 1

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23	aaagagcaac	taaagcataa	agaatttctt	ctggctgcta	atacttgtaa	ccgtgttggt	180
24	ggtctttggt	tgaatgtg	tcagcatgaa	gctgttcttt	cccaaacc	tactaatggt	240
25	catatgcaga	ccatcgaaag	actggttaaa	gaaagagatg	acttgatgtc	tgcactagtt	300
26	tccgtaagga	gcagcttggc	agatacgag	caaagagaag	caagtgtt	tgaacagggtg	360
27	aaacaagttt	tgcaaatatc	tgaggaagcc	aattttgaaa	aaaccaaggc	tttaattccag	420
28	tgtgaccagt	tgaggaagga	gctggagagg	caggcggagc	gacttgaaaa	agaacttgca	480
29	tctcagcaag	agaaaagggc	cattgagaaa	gacatgatga	aaaaggaaat	aacgaaagaa	540
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31	cagggtgaaa	aggttacaaa	ggaaaagatt	tcagctatta	atcaactgga	ggaaattcaa	660
32	agccagctgg	cttctcgagg	aatggatgtc	acaaagggtg	gtggagaaat	gcgctatcag	720
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41	cggctgcgga	cccagttacc	cagcatgcc	caatctgatt	gctgacctgg	atggaacaga	1260
42	gtgaaataaa	tgaattacaa	agagatat	acattcatct	ggtttagact	taatattgcca	1320
43	caacgcacca	cgaccttccc	aggggtgac	cgcctcagcc	tgacgtgggg	ctggctcctca	1380
44	tcaacgcggg	cgctgtcccc	gcacgcagtc	gggctggagc	tggagtctga	ctctagctga	1440

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56      tcgagacgac ttccccctcc gcaaaacagc ctctgaacct aacttgaaag tgcgttcaag      240
57      gctaaaaacag aaggtggctg agcggagaag cagtcccctc ctgcgtcgca aggatgggac      300
58      tgttattagc acctttaaga agagagctgt tgagatcaca ggtgccgggc ctggggcgctc      360
59      gtccgtgtgt aacagcgcac ccggctccgg cccagctct cccaacagct cccacagcac      420
60      catcgctgag aatggcttta ctggctcagt cccaacatc cccactgaga tgctccctca      480
61      gcaccgagcc ctccctctgg acagctcccc caaccagttc agcctctaca cgtctccttc      540
62      tctgccaac atctccctag ggctgcaggc cacggctact gtcaccaact cacacctcac      600
63      tgctccccc aagctgtcga cacagcagga ggccgagagg caggccctcc agtccctgcg      660
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79      tggccgcatc cagagcatct ggtcccggct gcaggagaca ggctgctta gcaagtgcga      1620
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81      caccctgctc tatgggacca gtcccctcaa ccggcagaag ctagacagca agaagttgct      1740
82      cggccccatc agccagaaga tgtatgctgt gctgccttgt gggggcatcg ggggtggacag      1800
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85      gccccagga caccacgcc aggaatccac agccatggga ttctgcttct tcaactctgt      1980
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92      acatctgtct cctctgggtg gctactctgt caccgccaga tgttttgcc acttgaccag      2400
93      gcagctgatg accctggcag ggggccgggt ggtgctggcc ctggaggagg gccatgactt      2460
94      gaccgccatc tgtgatgcct ctgaagcttg tgtctcggt ctgctcagtg taaagctgca      2520

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96      gaaagtcatc gagatccaga gcaaacactg gagctgtgtg cagaagttcg ccgctggtct      2640
97      gggccggtcc ctgcgagggg cccaagcagg tgagaccgaa gaagccgaaa tgtgaacgcc      2700
98      atggccttgc tgttggtggg ggccgaacag gcccaagctg cggcagcccg ggaacacagc      2760
99      cccaggcccg cagaggagcc catggagcag gagcctgccc tgtgacgccc cggcccccatt      2820
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109 <222> LOCATION: 55..55
110 <223> OTHER INFORMATION:
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113 <222> LOCATION: 141..141
114 <223> OTHER INFORMATION:
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125 <222> LOCATION: 352..352
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141 <222> LOCATION: 1101..1101
142 <223> OTHER INFORMATION:
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Output Set: N:\CRF4\03062003\I502945.raw

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146 <223> OTHER INFORMATION:

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152      ttctgaagga tcaggagaaa agctggctct tgcagatctg cttgagcctg ttaaaacttc      300
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157      ggaaggcaag aactcccttg gagcaggaaa ttttcaacct cctccataag aacaagcagc      600
158      cagtgcacga ccctttactg acccctgtgg aaaaggcctc tctccgagcc atgagcctag      660
159      aagaggcaaa gatgcgacga gcagagcttc agagggtctg ggctctgcag tctactatg      720
160      angccaaggc tcgaagagag aagaaaatcn aaagttaaaa gtatcacaaa gtcgtgaaga      780
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162      ccgactaga agaacgaaga aaagaggaaa gaaggaggag gagaagaag aagaacaagg      900
163      agaagaagaa agaagaaggg agaaggagaa gaaaagaagg agaaggagaa aaggaagaag      960
164      gagaaagaaa aggagaagga aaaggaaaag aaggagaaga aagaagaact aagaagaagg      1020
165      agaggaagaa taagaaggaa agaagaaaaga aaaaagttaa agaagaagaa agaaggaaga      1080
166      aggaagaag aggaagaact nagaagaaga aagaggagga aagaagaaa aagaataagg      1140
167      aacnagaaag aaggagaaga aagaataaga agaggaagaa gaaaaagaag aaaagaagaa      1200
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173 <212> TYPE: DNA

174 <213> ORGANISM: Homo Sapiens

175 <400> SEQUENCE: 4

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178      ttccggcata aggtggattt tctgattgaa aatgatgcag agaaggacta tctctatgat      180
179      gtgctgcgaa tgtaccacca gaccatggac gtggccgtgc tcgtgggaga cctgaagctg      240
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182      cgtctggacc gtctgcaccc cgaaggcctc ggcttgagtg tgcgtggtgg cctggagttt      420
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185      gaggtcatca acctcattcg aaccaagaaa actgtgtcca tcaaagttag acacatcggc      600
186      ctgatccccg tgaagagctc tcctgatgag cccctcactt ggagtatgt ggatcagttt      660
187      gtgtcggaaat ctggggcgct gcgaggcagc ctgggctccc ctggaaatcg ggaaaacaag      720
188      gagaagaagg tcttcatcag cctggtaggc tcccgaggcc ttggctgcag catttccagc      780
189      ggccccatcc agaagcctgg catctttatc agccatgtga aacctggctc cctgtctgct      840
190      gaggtgggat tggagatagg ggaccagatt gtcgaagtca atggcgtcga cttctctaac      900
191      ctggatcaca aggagctgtg aaatgtgctg aaaaatagcc gcagcctgac catctccatt      960
192      gtagctgcag ctggccggga gctgttcatg acagaccggg agcggctggc agaggcgcg      1020
193      cagcgtgagc tgcagcggca ggagcttctc atgcagaagc ggctggcgat ggagtccaac      1080
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197	accatcactg	ctgaggtaca	cccagtaccc	cttcgcaagc	caaagtatga	tcagggagtg	1320
198	gaacctgagc	tcgagcccg	agatgacctg	gatggaggca	cggaggagca	gggagagcag	1380
199	gatttccgga	aatatgagga	aggctttgac	ccctactcta	tgttcacccc	agagcagatc	1440
200	atggggaagg	atgtccggct	cctacgcac	aagaaggagg	gacccctaga	cctggccctg	1500
201	gaaggcgggtg	tggactcccc	cattgggaag	gtggtcggtt	ctgctgtgta	tgagcgggga	1560
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204	ggcggggact	ggatcgacct	tgtggttgcc	gtctgcccc	caaaggagta	tgacgatgag	1740
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206	ctccggcccc	acctcgtaga	cacaaagcct	cggaccagcc	ttgagagagg	ccacatgaca	1860
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224	gtcatcaatg	aacccagccg	tctgcctctg	tttgatgcca	ttcggccgct	gatccactg	300
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229	gaggtcatca	acctcattcg	aaccaagaaa	actgtgtcca	tcaaagtga	acacatcggc	600
230	ctgatccccg	tgaaaagctc	tcctgatgag	cccctcactt	ggcagtatgt	ggatcagttt	660
231	gtgtcggaa	ctgggggctg	gcgaggcagc	ctgggctccc	ctggaaatcg	ggaaaacaag	720
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235	ctggatcaca	aggaggctgt	aaatgtgctg	aaaaatagcc	gcagcctgac	catctccatt	960
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238	aagatcctcc	aggagcagca	ggagatggag	cggcaaggga	gaaaagaaat	tgcccagaag	1140
239	gcagcagag	aaaatgagag	ataccggaag	gagatggaac	agattgtaga	ggaggaagag	1200
240	aagttaagga	agcaatggga	agaagactgg	ggctcaaagg	aacagctact	cttgcctaaa	1260
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243	ccggctccta	cgcacaaaga	aggagggatc	cttagacctg	gccctggaag	gcgggtgtgga	1440
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RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 03/06/2003

PATENT APPLICATION: US/09/502,945

TIME: 16:14:36

Input Set : N:\Crf3\RULE60\09502945.raw

Output Set: N:\CRF4\03062003\I502945.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 55,141,199,342,352,722,750,1058,1101,1144

VERIFICATION SUMMARYPATENT APPLICATION: **US/09/502,945**

DATE: 03/06/2003

TIME: 16:14:36

Input Set : **N:\CrF3\RULE60\09502945.raw**Output Set: **N:\CRF4\03062003\I502945.raw**

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L:119 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:0
L:123 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:0
L:127 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:0
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L:135 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:0
L:139 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:0
L:143 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:0
L:147 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:0
L:147 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:0
L:148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
M:341 Repeated in SeqNo=3